

Atty. Dkt. AMAT/5975.P1/CPI/COPPER/LB/PJS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Chang, et al.

Serial No.: 10/634,662

Confirmation No.: 6355

Filed:

August 4, 2003

For:

Ruthenium Layer

Formation for Copper Film

Deposition

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Group Art Unit: 1762

Examiner: Wesley D. Markham

MAIL STOP AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

CERTIFICATE OF MAILING 37 CFR 1.8

I hereby certify that this correspondence is being deposited on September 20, 2004 with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Date

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

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If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/5975.P1/KMT.

Respectfully submitted,

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ase type a plus sign (+) inside this box PTO/SB/08a (08-03) Approved for use through 07/31/2006. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respo formation unless it displays a valid OMB control number. 10/634,662 Substitute for form 1449A/PTO **Application Number** Filing Date August 4, 2003 SUPPLEMENTAL INFORMATION First Named Inventor Chang, et al. DISCLOSURE STATEMENT BY Group Art Unit 1762 **APPLICANT Examiner Name** Unknown Attorney Docket Number AMAT/5975.P1/CPI/COPPER/LB/PJS (Use as many sheets as necessary)

September 20, 2004

Submission Date

				U.S. PATENT	DOCUMENTS		
Examiner Initials*	Cite No.1	Document Number		Publication Date MM-DD-YYYY		Pages, Columns, Lines	
		Number-Kind Code ^{2 (if known)}			Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
	A1	A1 US-6,713,373 B1 A2 US-6,605,735 B2		03/30/2004	Omstead		
	A2			08/12/2003	Kawano, et al.		
	A3 US-6,479,100 B2		6-6,479,100 B2	11/12/2002	Jin, et al.		
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		•	NON	PATENT LITER	ATURE DOCUMENTS	<u> </u>	
Examiner Initials*	Cite No. ¹		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published Aaltonen, et al., "Atomic Layer Deposition of Ruthenium from RuCp2 and Oxygen: Film Growth and				T²
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	C8		Lashdaf, et al., "Deposition of palladium and ruthenium β-diketonates on alumina and silica supports in gas and liquid phase," Applied Catalysis A: General 241 (2003) pp. 51-63.				
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Examiner Date Considered

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